

Appendix A-9: Maternity (MAT-1) Measure Rate Calculation Rules

MAT-1 Measure Rules Effective as of July 1, 2013 discharges

General Rule: Proceed sequentially as directed using data elements submitted. Each case must be assigned to a specific category (X, B, D, or E) and once assigned, review ends.

Categories

- X - Case will be rejected, not in measure population
- B - Case will be excluded, not in measure population
- D - In measure population, excluded from numerator
- E - In measure population, included in numerator

Data Element Sequence # / Name	Rule
1 Episode of Care	continue if value = MAT-1, otherwise assign to Category X
2 Provider Name	assign to Category X if field is empty (i.e., no characters)
3 Provider ID	check against Provider ID table, assign to Category X if missing or no match
4 First Name	assign to Category X if field is empty (i.e., no characters)
5 Last Name	assign to Category X if field is empty (i.e., no characters)
6 Birthdate	assign to Category X if field is empty (i.e., no date)
7 Sex	continue if value = F, otherwise assign to Category X
8 Postal Code	assign to Category X if field is empty (i.e., no postal code) or invalid
9 Race	check against Race Code table, assign to Category X if missing or no match
10 Ethnicity	check against Ethnicity Code table, assign to Category X if missing or no match
11 Hispanic Indicator	continue if value = Y or N, otherwise assign to Category X
12 Hospital Bill Number	assign to Category X if field is empty (i.e., no characters)
13 Patient ID	assign to Category X if field is empty (i.e., no characters)
14 Admission Date	date cannot be after Discharge Date, if so, assign to Category X assign to Category X if field is empty or invalid (i.e., no date)
15 Discharge Date	continue if date is within submission time frame, otherwise assign to Category X /cannot be prior to admit date assign to Category X if field is empty or invalid (i.e., no date)
16 Clinical Trial	if value = Y, assign to Category B / assign missing value to Category X
17 Discharge Disposition	check against Discharge Disposition Code table, assign to Category X if missing or no match
18 Payer Source	continue if valid value, otherwise assign to Category X
19 MassHealth Member ID	assign to Category X if field is empty or invalid (i.e., no characters)
20 Sample	continue if value = Y or N, otherwise assign to Category X

Appendix A-9: Maternity (MAT-1) Measure Rate Calculation Rules

MAT-1 Measure Rules Effective as of July 1, 2013 discharges

Data Element Sequence # / Name	Rule
21 Gestational Age	if value = < or = 24 weeks, assign to Category B / assign to Category D if field is empty (i.e., no characters)
22 Admission Time	assign to Category D if field is invalid or empty (i.e., no characters)
23 IV Antibiotic (Non-GBS) MAT-1	if value = Y, assign to Category B / assign missing value to Category D
24 Cesarean Delivery	if value = Y, assign to Category B / assign missing value to Category D
25 Delivery Date	date cannot be before Admission Date or after Discharge Date, if so, assign to Category D assign to Category D if field is empty (i.e., no date) or invalid or value = UTD
26 Delivery Time	assign to Category D if field is empty, invalid (value > 23:59), or value = UTD
27 Live Newborn	if value = N, assign to Category B / assign missing value to Category D
28 Previous Infant with Invasive GBS	if value = Y, go to data element Intrapartum Antibiotics [sequence # 34]
29 GBS Bacteriuria	if value = Y, go to data element Intrapartum Antibiotics [sequence # 34]
30 GBS Screening	if value = P, go to data element Intrapartum Antibiotics [sequence # 34] if value = N, assign to Category B
31 Gestational Age < 37 Weeks	if value = Y, go to data element Intrapartum Antibiotics [sequence # 34]
32 Amniotic Membrane Rupture 18 or More Hours	if value = Y, go to data element Intrapartum Antibiotics [sequence # 34]
33 Intrapartum Temperature	if value = N, assign to Category B
34 Intrapartum Antibiotics	if value = N, assign to Category D / assign missing value to Category D
35 Antibiotic Name for GBS Prophylaxis	check against MAT-1 Antibiotic Name Code table, assign to Category D if missing or no match if value = 1, 2, 3, 5, or 6, go to data element Antibiotic Administration Date [sequence # 37]
36 Maternal Allergies	if value = N, assign to Category D / assign missing value to Category D
37 Antibiotic Administration Date	date cannot be after Delivery Date (MAT-1), if so, assign to Category D assign to Category D if field is empty (i.e., no date) or value = UTD
38 Antibiotic Administration Time	assign to Category D if field is empty, invalid (value > 23:59), or value = UTD
39 <i>calculated value</i>	if (Delivery Date and Time - Antibiotic Administration Date and Time) >= 0, assign to Category E if (Delivery Date and Time - Antibiotic Administration Date and Time) < 0, assign to Category D

$$\text{MEASURE RATE} = \frac{\text{Number of cases in Category E}}{\text{Number of cases in Category D} + \text{Number of cases in Category E}}$$

Appendix A-9: Maternity (MAT-2a) Measure Rate Calculation Rules

MAT-2a Measure Rules Effective as of July 1, 2013 discharges

Categories

- X - Case will be rejected, not in measure population
- B - Case will be excluded, not in measure population
- D - In measure population, excluded from numerator
- E - In measure population, included in numerator

General Rule: Proceed sequentially as directed using data elements submitted. Each case must be assigned to a specific category (X, B, D, or E) and once assigned, review ends.

Data Element Sequence # / Name	Rule
1 Episode of Care	continue if value = MAT-2, otherwise assign to Category X
2 Provider Name	assign to Category X if field is empty (i.e., no characters)
3 Provider ID	check against Provider ID table, assign to Category X if missing or no match
4 First Name	assign to Category X if field is empty (i.e., no characters)
5 Last Name	assign to Category X if field is empty (i.e., no characters)
6 Birthdate	assign to Category X if field is empty (i.e., no date)
7 Sex	continue if value = F, otherwise assign to Category X
8 Postal Code	assign to Category X if field is empty (i.e., no postal code) or invalid
9 Race	check against Race Code table, assign to Category X if missing or no match
10 Ethnicity	check against Ethnicity Code table, assign to Category X if missing or no match
11 Hispanic Indicator	continue if value = Y or N, otherwise assign to Category X
12 Hospital Bill Number	assign to Category X if field is empty (i.e., no characters)
13 Patient ID	assign to Category X if field is empty (i.e., no characters)
14 Admission Date	date cannot be after Discharge Date, if so, assign to Category X assign to Category X if field is empty or invalid (i.e., no date)
15 Discharge Date	continue if date is within submission time frame, otherwise assign to Category X /cannot be prior to admit date assign to Category X if field is empty or invalid (i.e., no date)
16 Clinical Trial	if value = Y, assign to Category B / assign missing value to Category X
17 Discharge Disposition	check against Discharge Disposition Code table, assign to Category X if missing or no match
18 Payer Source	continue if valid value, otherwise assign to Category X
19 MassHealth Member ID	assign to Category X if field is empty or invalid (i.e., no characters)
20 Sample	continue if value = Y or N, otherwise assign to Category X

Appendix A-9: Maternity (MAT-2a) Measure Rate Calculation Rules

MAT-2a Measure Rules Effective as of July 1, 2013 discharges

Data Element Sequence # / Name	Rule
21 Infection Prior to Cesarean Section	if value = Y, assign to Category B / assign missing value to Category D
22 IV Antibiotic (Non-GBS) MAT-2	if value = Y, assign to Category B / assign missing value to Category D
23 Other Surgeries	if value = Y, assign to Category B / assign missing value to Category D
26 IV Antibiotic for Cesarean Section Prophylaxis	if value = N, assign to Category D / assign missing value to Category D
24 Cesarean Section Start Date	if value = UTD, assign to Category D / assign missing or invalid value to Category D
25 Cesarean Section Incision Time	if value = UTD, assign to Category D / assign missing or invalid value to Category D
27 Antibiotic Administration Date	assign to Category D if field is empty (i.e., no date), invalid, or value = UTD
28 Antibiotic Administration Time	assign to Category D if field is empty, invalid (i.e., value > 23:59), or value = UTD
29 <i>calculated value</i>	if (Cesarean Section Start Date and Incision Time - Antibiotic Administration Date and Time) < 0 minutes, assign to Category D if (Cesarean Section Start Date and Incision Time - Antibiotic Administration Date and Time) > 60 minutes, assign to Category D if (Cesarean Section Start Date and Incision Time - Antibiotic Administration Date and Time) >= 0 minutes and <= 60 minutes, assign to Category E

MEASURE RATE =

$$\frac{\text{Number of cases in Category E}}{\text{Number of cases in Category D} + \text{Number of cases in Category E}}$$

Appendix A-9: Maternity (MAT-2b) Measure Rate Calculation Rules

MAT-2b Measure Rules Effective as of July 1, 2013 discharges

Categories

- X - Case will be rejected, not in measure population
- B - Case will be excluded, not in measure population
- D - In measure population, excluded from numerator
- E - In measure population, included in numerator

General Rule: Proceed sequentially as directed using data elements submitted. Each case must be assigned to a specific category (X, B, D, or E) and once assigned, review ends.

Data Element Sequence # / Name	Rule
1 Episode of Care	continue if value = MAT-2, otherwise assign to Category X
2 Provider Name	assign to Category X if field is empty (i.e., no characters)
3 Provider ID	check against Provider ID table, assign to Category X if missing or no match
4 First Name	assign to Category X if field is empty (i.e., no characters)
5 Last Name	assign to Category X if field is empty (i.e., no characters)
6 Birthdate	assign to Category X if field is empty (i.e., no date)
7 Sex	continue if value = F, otherwise assign to Category X
8 Postal Code	assign to Category X if field is empty (i.e., no postal code) or invalid
9 Race	check against Race Code table, assign to Category X if missing or no match
10 Ethnicity	check against Ethnicity Code table, assign to Category X if missing or no match
11 Hispanic Indicator	continue if value = Y or N, otherwise assign to Category X
12 Hospital Bill Number	assign to Category X if field is empty (i.e., no characters)
13 Patient ID	assign to Category X if field is empty (i.e., no characters)
14 Admission Date	date cannot be after Discharge Date, if so, assign to Category X assign to Category X if field is empty or invalid (i.e., no date)
15 Discharge Date	continue if date is within submission time frame, otherwise assign to Category X /cannot be prior to admit date assign to Category X if field is empty or invalid (i.e., no date)
16 Clinical Trial	if value = Y, assign to Category B / assign missing value to Category X
17 Discharge Disposition	check against Discharge Disposition Code table, assign to Category X if missing or no match
18 Payer Source	continue if valid value, otherwise assign to Category X
19 MassHealth Member ID	assign to Category X if field is empty or invalid(i.e., no characters)
20 Sample	continue if value = Y or N, otherwise assign to Category X

Appendix A-9: Maternity (MAT-2b) Measure Rate Calculation Rules

MAT-2b Measure Rules Effective as of July 1, 2013 discharges

Data Element Sequence # / Name	Rule
21 Infection Prior to Cesarean Section	if value = Y, assign to Category B / assign missing value to Category D
22 IV Antibiotic (Non-GBS) MAT-2	if value = Y, assign to Category B / assign missing value to Category D
23 Other Surgeries	if value = Y, assign to Category B / assign missing value to Category D
24 IV Antibiotic for Cesarean Section Prophylaxis	if value = N, assign to Category D / assign missing value to Category D
25 Antibiotic Name for Cesarean Section Prophylaxis	check against MAT-2 Antibiotic Name Code table, assign to Category D if missing or no match
	if value = 1, 2, or 3, assign to Category E
26 Maternal Allergies	if value = Y, assign to Category E
	if value = N, assign to Category D / assign missing value to Category D

MEASURE RATE =

$$\frac{\text{Number of cases in Category E}}{\text{Number of cases in Category D} + \text{Number of cases in Category E}}$$

Appendix 9: Maternity (MAT-3) Measure Rate Calculation Rules

MAT-3 Measure Rules Effective as of July 1, 2013 discharges

General Rule: Proceed sequentially as directed using data elements submitted. Each case must be assigned to a specific category (X, B, D, or E) and once assigned, review ends.

Categories

- X - Case will be rejected, not in measure population
- B - Case will be excluded, not in measure population
- D - In measure population, excluded from numerator
- E - In measure population, included in numerator

Data Element Sequence # / Name	Rule
1 Episode of Care	continue if value = MAT-3, otherwise assign to Category X
2 Provider Name	assign to Category X if field is empty (i.e., no characters)
3 Provider ID	check against Provider ID table, assign to Category X if missing or no match
4 First Name	assign to Category X if field is empty (i.e., no characters)
5 Last Name	assign to Category X if field is empty (i.e., no characters)
6 Birthdate	assign to Category X if field is empty (i.e., no date)
7 Sex	continue if value = F, otherwise assign to Category X
8 Postal Code	assign to Category X if field is empty (i.e., no postal code) or invalid
9 Race	check against Race Code table, assign to Category X if missing or no match
10 Ethnicity	check against Ethnicity Code table, assign to Category X if missing or no match
11 Hispanic Indicator	continue if value = Y or N, otherwise assign to Category X
12 Hospital Bill Number	assign to Category X if field is empty (i.e., no characters)
13 Patient ID	assign to Category X if field is empty (i.e., no characters)
14 Admission Date	date cannot be after Discharge Date, if so, assign to Category X assign to Category X if field is empty or invalid (i.e., no date)
15 Discharge Date	continue if date is within submission time frame, otherwise assign to Category X/ cannot be prior to admit date assign to Category X if field is empty or invalid (i.e., no date)
17 Discharge Disposition	check against Discharge Disposition Code table, assign to Category X if missing or no match
18 Payer Source	continue if valid value, otherwise assign to Category X
19 MassHealth Member ID	assign to Category X if field is empty or invalid (i.e., no characters)
20 Sample	continue if value = Y or N, otherwise assign to Category X
21 ICD-9-CM Principal or Other Diagnosis Code	if value = on table 11.07, assign to Category B / assign missing value to Category X
22 Clinical Trial	if value = Y, assign to Category B / assign missing value to Category X
23 Prior Uterine Surgery	if value = Y, assign to Category B / assign missing value to Category X

Appendix 9: Maternity (MAT-3) Measure Rate Calculation Rules

MAT-3 Measure Rules Effective as of July 1, 2013 discharges

Data Element Sequence # / Name	Rule
24 Gestational Age	if value = (<37 or >= 39), assign to Category B / assign missing value to Category E
	if value = UTD, assign to Category E
25 ICD-9-CM Principal or Other Diagnosis Code	if value = on table 11.06.1, assign to Category D
26 ICD-9-CM Principal or Other Procedure Code	if value = on table 11.05, assign to Category E
	if value = none on 11.05 and none on 11.06, assign to Category D
27 Labor	if value = Y, assign to Category D / assign missing value to Category E
28 Spontaneous Rupture of Membranes	if value = Y, assign to Category D / assign missing value to Category E
	if value = N, assign to Category E

$$\text{MEASURE RATE} = \frac{\text{Number of cases in Category E}}{\text{Number of cases in Category D} + \text{Number of cases in Category E}}$$

Appendix A-9 Care Coordination (CCM-1) Measure Rate Calculation Rules

CCM-1 Measure Rules Effective as of July 1, 2013 discharges

General Rule: Proceed sequentially as directed using data elements submitted. Each case must be assigned to a specific category (X, B, D, or E) and once assigned, review ends.

Categories

- X - Case will be rejected, not in measure population
- B - Case will be excluded, not in measure population
- D - In measure population, excluded from numerator
- E - In measure population, included in numerator

Data Element Sequence # / Name	Rule
1 Episode of Care	continue if value = CCM, otherwise assign to Category X
2 Provider Name	assign to Category X if field is empty (i.e., no characters)
3 Provider ID	check against Provider ID table, assign to Category X if missing or no match
4 First Name	assign to Category X if field is empty (i.e., no characters)
5 Last Name	assign to Category X if field is empty (i.e., no characters)
6 Birthdate	assign to Category X if field is empty (i.e., no date)
7 Sex	assign to Category X if field is empty (i.e., no characters)
8 Postal Code	assign to Category X if field is empty (i.e., no postal code) or invalid
9 Race	check against Race Code table, assign to Category X if missing or no match
10 Ethnicity	check against Ethnicity Code table, assign to Category X if missing or no match
11 Hispanic Indicator	continue if value = Y or N, otherwise assign to Category X
12 Hospital Bill Number	assign to Category X if field is empty (i.e., no characters)
13 Patient ID	assign to Category X if field is empty (i.e., no characters)
14 Admission Date	date cannot be after Discharge Date, if so, assign to Category X assign to Category X if field is empty or invalid (i.e., no date)
15 Discharge Date	continue if date is within submission time frame, otherwise assign to Category X /cannot be prior to admit date assign to Category X if field is empty or invalid (i.e., no date)
16 Clinical Trial	if value = Y, assign to Category B / assign missing value to Category X
17 Discharge Disposition	if value = 6, 7, assign to Category B/ assign to Category X if missing or no match
18 Payer Source	continue if valid value, otherwise assign to Category X
19 MassHealth Member ID	assign to Category X if field is empty or invalid(i.e., no characters)
20 Sample	continue if value = Y or N, otherwise assign to Category X
21 Reconciled Medication List	if value = N, assign to Category D / assign missing value to Category D if value = Y, assign to Category E

MEASURE RATE =

$$\frac{\text{Number of cases in Category E}}{\text{Number of cases in Category D} + \text{Number of cases in Category E}}$$

Appendix A-9 Care Coordination (CCM-2) Measure Rate Calculation Rules

CCM-2 Measure Rules Effective as of July 1, 2013 discharges

General Rule: Proceed sequentially as directed using data elements submitted. Each case must be assigned to a specific category (X, B, D, or E) and once assigned, review ends.

Categories

- X - Case will be rejected, not in measure population
- B - Case will be excluded, not in measure population
- D - In measure population, excluded from numerator
- E - In measure population, included in numerator

Data Element Sequence # / Name	Rule
1 Episode of Care	continue if value = CCM, otherwise assign to Category X
2 Provider Name	assign to Category X if field is empty (i.e., no characters)
3 Provider ID	check against Provider ID table, assign to Category X if missing or no match
4 First Name	assign to Category X if field is empty (i.e., no characters)
5 Last Name	assign to Category X if field is empty (i.e., no characters)
6 Birthdate	assign to Category X if field is empty (i.e., no date)
7 Sex	assign to Category X if field is empty (i.e., no characters)
8 Postal Code	assign to Category X if field is empty (i.e., no postal code) or invalid
9 Race	check against Race Code table, assign to Category X if missing or no match
10 Ethnicity	check against Ethnicity Code table, assign to Category X if missing or no match
11 Hispanic Indicator	continue if value = Y or N, otherwise assign to Category X
12 Hospital Bill Number	assign to Category X if field is empty (i.e., no characters)
13 Patient ID	assign to Category X if field is empty (i.e., no characters)
14 Admission Date	date cannot be after Discharge Date, if so, assign to Category X assign to Category X if field is empty or invalid (i.e., no date)
15 Discharge Date	continue if date is within submission time frame, otherwise assign to Category X /cannot be prior to admit date assign to Category X if field is empty or invalid (i.e., no date)
16 Clinical Trial	if value = Y, assign to Category B / assign missing value to Category X
17 Discharge Disposition	if value = 6, 7, assign to Category B/ assign to Category X if missing or no match
18 Payer Source	continue if valid value, otherwise assign to Category X
19 MassHealth Member ID	assign to Category X if field is empty or invalid (i.e., no characters)
20 Sample	continue if value = Y or N, otherwise assign to Category X

Appendix A-9 Care Coordination (CCM-2) Measure Rate Calculation Rules

CCM-2 Measure Rules Effective as of July 1, 2013 discharges

Data Element Sequence # / Name	Rule
21 Transition Record	if value = N, assign to Category D / assign missing value to Category D
22 Reason for Inpatient Admission	assign missing value to Category D, if value = Y, add 1 to Transition Record Counter
23 Medical Procedures & Tests	assign missing value to Category D, if value = Y, add 1 to Transition Record Counter
24 Discharge Diagnosis	assign missing value to Category D, if value = Y, add 1 to Transition Record Counter
25 Current Medication List	assign missing value to Category D, if value = Y, add 1 to Transition Record Counter
26 Studies Pending at Discharge	assign missing value to Category D, if value = Y, add 1 to Transition Record Counter
27 Patient Instructions	assign missing value to Category D, if value = Y, add 1 to Transition Record Counter
28 Advance Care Plan	if patient < 18, go to data element Contact Information 24/7 (Sequence #29) assign missing value to Category D, if value = Y, add 1 to Transition Record Counter
29 Contact Information 24 hrs/ 7 days	assign missing value to Category D, if value = Y, add 1 to Transition Record Counter
30 Contact Information Studies Pending	assign missing value to Category D, if value = Y, add 1 to Transition Record Counter
31 Plan for Follow-Up Care	assign missing value to Category D, if value = Y, add 1 to Transition Record Counter
Primary Physician/ Health Care Professional Designated for Follow-Up	
32 Care	assign missing value to Category D, if value = Y, add 1 to Transition Record Counter
<i>calculated value</i>	if patient <18 and transition record counter < 10, assign to Category D if patient <18 and transition record counter = 10, assign to Category E if patient >= 18 and transition record counter < 11, assign to Category D if patient >= 18 and transition record counter = 11, assign to Category E

$$\text{MEASURE RATE} = \frac{\text{Number of cases in Category E}}{\text{Number of cases in Category D} + \text{Number of cases in Category E}}$$

Appendix A-9 Care Coordination (CCM-3) Measure Rate Calculation Rules

CCM-3 Measure Rules Effective as of July 1, 2013 discharges

General Rule: Proceed sequentially as directed using data elements submitted. Each case must be assigned to a specific category (X, B, D, or E) and once assigned, review ends.

Categories

- X - Case will be rejected, not in measure population
- B - Case will be excluded, not in measure population
- D - In measure population, excluded from numerator
- E - In measure population, included in numerator

Data Element Sequence # / Name	Rule
1 Episode of Care	continue if value = CCM, otherwise assign to Category X
2 Provider Name	assign to Category X if field is empty (i.e., no characters)
3 Provider ID	check against Provider ID table, assign to Category X if missing or no match
4 First Name	assign to Category X if field is empty (i.e., no characters)
5 Last Name	assign to Category X if field is empty (i.e., no characters)
6 Birthdate	assign to Category X if field is empty (i.e., no date)
7 Sex	assign to Category X if field is empty (i.e., no characters)
8 Postal Code	assign to Category X if field is empty (i.e., no postal code) or invalid
9 Race	check against Race Code table, assign to Category X if missing or no match
10 Ethnicity	check against Ethnicity Code table, assign to Category X if missing or no match
11 Hispanic Indicator	continue if value = Y or N, otherwise assign to Category X
12 Hospital Bill Number	assign to Category X if field is empty (i.e., no characters)
13 Patient ID	assign to Category X if field is empty (i.e., no characters)
14 Admission Date	date cannot be after Discharge Date, if so, assign to Category X
	assign to Category X if field is empty or invalid (i.e., no date)
15 Discharge Date	continue if date is within submission time frame, otherwise assign to Category X / cannot be prior to admit date
	assign to Category X if field is empty or invalid (i.e., no date)
16 Clinical Trial	if value = Y, assign to Category B / assign missing value to Category X
17 Discharge Disposition	if value = 6, 7, assign to Category B/ assign to Category X if missing or no match
18 Payer Source	continue if valid value, otherwise assign to Category X
19 MassHealth Member ID	assign to Category X if field is empty or invalid (i.e., no characters)
20 Sample	continue if value = Y or N, otherwise assign to Category X

Appendix A-9 Care Coordination (CCM-3) Measure Rate Calculation Rules

CCM-3 Measure Rules Effective as of July 1, 2013 discharges

Data Element Sequence # / Name	Rule
21 Transmission Date	if value = UTD, assign to Category D / assign missing or invalid value to Category D
22 <i>calculated value</i>	if (Transmission Date - Discharge Date) > 2 days, assign to Category D
	if (Transmission Date - Discharge Date) < 0 days, assign to Category D
	if (Transmission Date - Discharge Date) >= 0 and <= 2 days, assign to Category E

$$\text{MEASURE RATE} = \frac{\text{Number of cases in Category E}}{\text{Number of cases in Category D} + \text{Number of cases in Category E}}$$